

	Application No.	Applicant(s)	
A	10/726,476	NELLES ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Alan Diamond	1753	
The MAILING DATE of this communication appears All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313 1. ☑ This communication is responsive to the terminal disclaimed.	(OR REMAINS) CLOSED in this apply or other appropriate communication IGHTS. This application is subject to 3 and MPEP 1308.	plication. If not included will be mailed in due course. THIS	ive
2. X The allowed claim(s) is/are 3,4,7,10-13,15-17,31 and 63.			
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority ur</li> <li>a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> <li>2.  Certified copies of the priority documents have</li> </ul>	e been received.	9/866.199 .	
Copies of the certified copies of the priority do     International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements	
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			
<ul> <li>5.  CORRECTED DRAWINGS ( as "replacement sheets") must (a)  including changes required by the Notice of Draftspers         <ul> <li>(a)  hereto or 2)  to Paper No./Mail Date</li> <li>(b)  including changes required by the attached Examiner's Paper No./Mail Date</li> <li>Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the deponsion of the de</li></ul></li></ul>	son's Patent Drawing Review (PTO- . s Amendment / Comment or in the O  .84(c)) should be written on the drawir he header according to 37 CFR 1.121(c) sit of BIOLOGICAL MATERIAL n	office action of angs in the front (not the back) of d).	
Attachment(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Summary Paper No./Mail Dat 98), 7. ☐ Examiner's Amendn	e	
		Alan Diamond Primary Examiner Art Unit: 1753	

## **REASONS FOR ALLOWANCE**

1. The following is an examiner's statement of reasons for allowance: The prior art does not teach or suggest the recited photoelectric conversion device, wherein the polymeric electrically conducting agent has a melting point lower that the operation temperature of the photoelectric conversion device, has a glass transition temperature Tg, and is a hole transporting agent. The advantage of the polymeric electrically conducting agent having a melting point lower that the operation temperature (and is, for example, liquid or viscous) is that desired intimate contact can be made between the agent and the semiconductor or dye (see the third paragraph on page 2, and the paragraph bridging pages 8 and 9, of the instant specification).

Bach et al, "Solid-state dye-sensitized mesoporous TiO<sub>2</sub> solar cells with high photon-electron conversion efficiencies," Nature, Vol. 395, (October 8, 1998), pages 583-585, is already of record in the instant application. Bach et al uses a hole conductor having a Tg of 120°C. Bach et al's device is a solid state device (see title) and thus, its hole conductor (OMeTAD), like the conventional hole conductor TPD (see page 583) is a solid and would not be expected to have a melting point lower that the operation temperature of the device. Furthermore, said OMeTAD and TPD would not be recognized by one skilled in the art as being polymeric.

The following reference is hereby made of record: Jager et al, "Novel hole transporting poly(triphenyldiamine)s for application in hybrid solar cells," Proceedings of SPIE, Vol. 4108, (2001), pages 104-111. Jager et al cannot be used as prior art since the instant application is fully supported by instant EP foreign priority document

00111493.3 having a filing date of 5/29/2000. The EP foreign priority document is in English (i.e., no certified English translation required) as is of record in instant parent application 09/866,199.

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The terminal disclaimer filed May 26, 2006 has overcome the obviousness-type double patenting rejection over U.S. Patent 6,700,058.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alan Diamond whose telephone number is 571-272-1338. The examiner can normally be reached on Monday through Friday, 5:30 a.m. to 2:00 p.m. ET.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam Nguyen can be reached on 571-272-1342. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

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Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Alan Diamond Primary Examiner Art Unit 1753

Alan Diamond June 6, 2006